

• New Machines and Gadgets •

For addresses where you can get more information on the new things described here, send a three-cent stamp to SCIENCE NEWS LETTER, 1719 N ST., Washington 6, D. C. and ask for Gadget Bulletin 550. To receive this Gadget Bulletin without special request each week, remit \$1.50 for one year's subscription.

⚙️ **CONVERTIBLE SHOE** with removable sole, recently patented, permits the owner to change from a light to heavy sole almost instantly. The shoe and the soles are manufactured separately. They are attached or separated easily by a special locking device.

Science News Letter, December 30, 1950

⚙️ **CASEMENT WINDOWS** for houses are cast in a single unit and have no welded or other joints. Casting in this form is made possible by a new type of permanent mold. Increased strength and rigidity is one advantage while rounded corners make cleaning easier.

Science News Letter, December 30, 1950

⚙️ **BUSINESS-FORMS MACHINE** permits copy to be typed and lines to be ruled as needed on one-page forms for records, tabulated reports and other matters. The machine rules single or double lines either horizontally or vertically as well as dots and dashes.

Science News Letter, December 30, 1950

Do You Know?

Roses, berry bushes and broadleaf evergreens need protection from winter conditions by late-fall *mulching*.

"Pigeon's milk," the first food of the newly hatched dove which it gets from the parent's mouth, is an actual form of milk secreted in the crop of the adult bird.

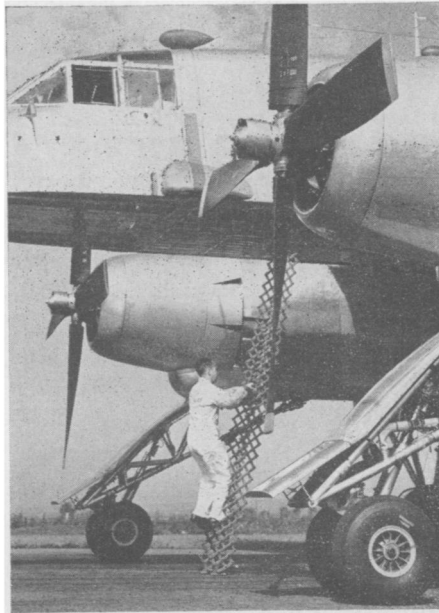
When an *atomic bomb* explodes, the characteristic cloud created reaches an altitude of 10,000 feet in about four-fifths of a second.

New York City Police Department, which has three *helicopters*, has used them to save many lives in the harbor and nearby waters during the past two years.

The number of persons needed to operate *Loran stations*, which enable mariners at sea to get their geographical location by radio waves, has been cut to half by new automatic equipment.

Korea, in 1948, ranked second among the shippers of *tungsten* ore to the United States, sending over 3,500,000 pounds.

High-frequency sound waves are sometimes used to scare away birds and rats; the frequency used is too high to register as sound in the human ear.



⚙️ **COLLAPSIBLE LADDER** can be folded into a portable three-foot package easily carried by one man, although it is 15 feet long when expanded. Built on the principle of a collapsible gate, it is shown in the picture in use on the runway of the airplane company that developed it.

Science News Letter, December 30, 1950

⚙️ **ROLLER PAINT-APPLIER**, recently patented, eliminates the dripping that sometimes comes from similar devices. The roller that spreads the paint is fed by another roller that gets its supply direct from the paint container.

Science News Letter, December 30, 1950

⚙️ **MECHANICAL PENCIL** carries a two-inch wide, 36-inch long roll of memo paper in its barrel. When the pencil is twisted the end of the roll appears and as much of the paper can be pulled out as needed. Refills are available. The pencil can be used to hold a roll of postage stamps if desired.

Science News Letter, December 30, 1950

⚙️ **VOICE AMPLIFIER**, a portable 12-pound public address system easily carried all day with a shoulder strap, is designed for a guide or instructor escorting a party on indoor or outdoor trips. Complete with battery, the amplifier is attached by cable to the microphone.

Science News Letter, December 30, 1950

⚙️ **COVER CLOTH** for interior painters and paperhangers is made of plastic sheeting that resists paint and chemicals and will not flash or support combustion. Paint on it, after drying, can be shaken off and the entire cloth can be cleaned with a damp rag.

Science News Letter, December 30, 1950

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